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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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DESIGNATED/ELECTED OFFICE (DO/EO/US)

CONCERNING A FILING UNDER 35 U.S.C. 371

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INTERNATIONAL APPLICATION NO. PCT/EP99/06478	INTERNATIONAL FILING DATE 03September 1999(03.09.99	PRIORITY DATE CLAIMED 10September1998(10.09.98)

TITLE OF INVENTION

METHOD FOR STORAGE OF A CHANNEL FOR A CONSUMER ELECTRONICS APPLIANCE

APPLICANT(S) FOR DO/EO/US

Jean-Bernard Mabon

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.

2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.

3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).

4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.

5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))

    a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).

    b. ☒ has been transmitted by the International Bureau.

    c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).

6. ☐ A translation of the International Application into English (35 U.S.C. 371(c)(2)).

7. ☒ A copy of the International Search Report (PCT/ISA/210). attached to Item 13

8. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))

    a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).

    b. ☐ have been transmitted by the International Bureau.

    c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.

    d. ☒ have not been made and will not be made.

9. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).

10. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).

11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).

12. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

Items 13 to 20 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98. with references attached

14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.

15. ☒ A **FIRST** preliminary amendment.

16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.

17. ☐ A substitute specification.

18. ☐ A change of power of attorney and/or address letter.

19. ☒ Certificate of Mailing by Express Mail   20. Return postcard receipt

20. ☒ Other items or information: **CERTIFICATE OF MAILING UNDER 37 CFR 1.10**

_EL682441873US_ "Express Mail" mailing no.	March 6, 2001 Date of Deposit

I hereby certify that this application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Davida Fornarotto

Typed or printed name of person mailing application   _Signature of person mailing application_

PCTUS1/REV03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant   :   Jean-Bernard Mabon

Filed   :   Herewith

For   :   METHOD FOR STORAGE OF A CHANNEL FOR A
                    CONSUMER ELECTRONICS APPLIANCE

PRELIMINARY AMENDMENT

Hon. Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Sir:

In the US national phase application of PCT/EP99/06478 filed herewith, please enter the following amendments:

IN THE SPECIFICATION:

Please amend the specification as follows:

On Page 1, following the title, insert:

-- This application claims the benefit under 35 U.S.C. § 365 of International Application PCT/EP99/06478, filed September 3, 1999, which was published in accordance with PCT Article 21(2) on March 23, 2000 in English, and which claims the benefit of DE 19841298.3, filed September 10, 1998.--

IN THE CLAIMS:

Please amend the claims as follows:

1.(AMENDED) Method for storage of a channel in a consumer electronics appliance, which can be switched over between different channels, wherein the reception duration of a selected channel is determined, [characterized in that] wherein, as soon as the reception duration of the selected channel exceeds a time interval [(ZE)], the selected channel is memorized as channel of interest that can be recalled by a dedicated command.

2.(AMENDED) Method according to Claim 1, [characterized in that] wherein the reception duration of the selected channel is determined only until it exceeds the predetermined time interval.

3.(AMENDED) Method according to Claim 1, [characterized in that] wherein the user sets the time interval [(ZE)].

4.(AMENDED) Method according to Claim 1, [characterized in that] wherein a changeover to the channel of interest is initiated by operating a control element.

5.(AMENDED) Method according to Claim 1, [characterized in that] wherein a picture relating to the channel of interest is stored as video information in a frame memory.

IN THE ABSTRACT:

Please add the following Abstract.

--In consumer electronics appliances, for example in the case of a television set, it is known for there to be a key on the remote control which allows the user to switch over to the previously selected channel. However, a disadvantage of this conventional solution is that, once the user has jumped from one channel to the next, which is called zapping, the television recognizes only the last channel in the zapping sequence as the last channel in each case. The invention is based on the object of providing an improved method for storage of a channel. The method according to the invention for storage of a channel in a consumer electronics appliance which can be switched over between different channels is distinguished in that the reception duration of the current channel is determined, and in that, as soon as the reception duration exceeds a predetermined time interval ZE, the channel is stored as a channel of interest.--
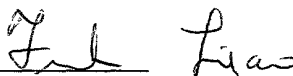
REMARKS

The specification has been amended to include a reference to the priority applications.

The above amendments to the claims have been made to eliminate the reference indicia and to meet the requirements of the United States.

To meet the requirements of the United States, the Abstract (as originally filed in the PCT application) is added.

No fee is believed to have been incurred by virtue of this amendment. However if a fee is incurred on the basis of this amendment, please charge such fee against deposit account 07-0832

Respectfully submitted,
Jean-Bernard Mabon

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609/734-9497

THOMSON multimedia Licensing Inc.
Patent Operation
PO Box 5312
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March 7, 2001

Method for storage of a channel for a consumer electronics appliance

The invention is based on a method for storage of
5 a channel for a consumer electronics appliance, in
particular for a television set.

The term programme means the respective
correspondingly received television programme, for
example ARD, ZDF, RTL (German television programmes) etc.
10 In consumer electronics appliances, for example in the
case of a television set, it is known for there to be a
key on the remote control which allows the user to switch
back to the previously selected channel. For example, if
a user is looking at a film on one channel but then
15 switches over to a different channel and in the process
forgets the channel on which the film is running, he or
she can easily switch back to the channel number with the
film by pressing this key. It is not necessary to know
the programme channel of the programme previously being
20 watched, since the appliance notes this automatically.

However, a disadvantage of this conventional
solution is that, once the user has jumped from one
channel to the next, which is called "zapping", the
television recognizes only the last channel in the
25 zapping sequence as the last channel in each case.

The invention is based on the object of providing
an improved method for storage of a channel. This object
is achieved by the features of the invention specified in
Claims 1 and 20. Advantageous developments of the
30 invention are specified in the dependent claims.

The method according to the invention for storage
of a channel in a consumer electronics appliance which
can be switched over between different channels is
distinguished in that the reception duration of the
35 current channel is determined, and in that, as soon as
the reception duration exceeds a predetermined time
interval ZE, the channel is stored as a channel of
interest.

2

If a programme is received for a relatively long term period on one channel, then the predetermined time interval can be used to confirm that the user has remained on that channel for this relatively long time period. If an advertising break, for example, now occurs and the user switches backwards and forwards between the various channels, it is now possible to jump back to the channel which had previously been received for the relatively long time interval.

In a development of the method, the reception duration of the current channel is determined permanently.

In consequence, it is possible to identify a channel of interest even when no changeover has been made. This has the advantage that, if the user inadvertently operates the "channel of interest" function key, which allows a changeover to the channel of interest, the last but one channel of interest would have been stored there if the reception duration of the current channel had not been determined permanently.

Another development of the invention is characterized in that the reception duration of the current channel is determined only until the time interval is reached.

This has the advantage that the microprocessor is relieved of the load as soon as the time interval is reached, and no further counting is required.

The method is further characterized in that the reception duration is determined on switching over from the current channel to a further channel.

If the reception duration on changeover were determined, this would have the advantage that the method according to the invention could be implemented more easily, since the microprocessor would not itself carry out the monitoring of the reception duration, but this would be initiated by the changeover time. The changeover time is also defined by pressing the "channel of

3

interest" function key, in order to carry out an evaluation.

An additional development of the method is characterized in that the time interval is set by the manufacturer and/or the user.

The time interval indicates the point in time from which a channel should or should not be regarded as being of interest. This may, on the one hand, be a permanently preset value of, for example, 30 seconds, while, on the other hand, it is advantageous if this value can be varied by the user. The "channel of interest" function key could thus be programmed individually as a function of time, so that the user can determine the channel that is of interest to him or her, for example, only after a time interval of 3 minutes.

Another development of the method is characterized in that various time intervals are set.

If various time intervals can be set, channels of interest in different categories are determined. For example, one function key could be operated twice, or a plurality of function keys could be operated by means of which it would be possible to switch over to channels with different time intervals.

A further development of the invention is characterized in that a first short time interval, a second medium time interval and a third long time interval are provided, in order in this way to determine different channels of interest.

If the various time intervals were subdivided, for example, into three parts, then the short time interval could be, for example, 30 seconds, the medium time interval could be, for example, 2 minutes and the long time interval could be, for example, 10 minutes, and the user would be able to switch over to the respective channel of interest by pressing different keys.

The method can likewise be characterized in that the reception duration of the current channel is determined, and in that, on switching over from the

4

current channel to a further channel, the reception
duration of the further channel is determined, and in
that the channel having the longest reception duration is
stored as the time interval.

5   This avoids the need to program the time
interval, since the system automatically determines the
time interval by measuring the longest reception
duration. This possibly has the disadvantage that, if a
channel has been received for an extremely long time
10   prior to this, this will always be identified as a
channel of interest. The memory should therefore
preferably be erased when the appliance is switched off,
or a function key would have to be provided to erase the
memory.

15   A function key should preferably also be
provided, which the user can operate in order to define a
channel which he or she has watched as being a channel of
interest. This could be done, for example, by pressing
the function key of a channel of interest for longer, and
20   the user then being notified by a message on the screen,
such as "stored", or by a signal tone, that the channel
that has just been viewed has been stored as a "channel
of interest". Storage would also be possible by means of
a separate "save key". In this way, it would be possible,
25   if the user had found a channel of interest while
switching through, [lacuna] in order that he or she can
call it up again later. If the user is given the
capability to define such "channels of interest" by means
of a plurality of function keys or by operating a key
30   twice, he or she can call them up again at any time
later.

         One possible refinement is, for example, for the
"channel of interest" key to in each case determine the
channel which exceeds the time interval, and for a
35   "channel of interest" key combination with a channel
number key, for example channel number 1, to call up the
channel of interest which the user has stored in channel
number 1. This means that, if the user presses the

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channel number key 1 normally, he receives the channel 1,
in most cases ARD, if he presses the "channel of
interest" key followed by the channel number key 1, he
would receive, for example, the channel Pro7 which he had
5   himself stored as the channel of most interest. In this
way, the user could quickly and individually store his or
her favourite channels for each evening's television, and
even define a ranking sequence by the predetermined
rising numbers from 1 to 9 which, as a rule, are used on
10 remote controls.

The method can also be characterized in that all
channels which exceed the time interval are stored as
channels of interest.

If all channels that exceed the time interval are
15 stored as a channel of interest, the user can call this
up from the memory. This would be possible by means of
various keys or by repeatedly operating the "channel of
interest" key.

The method can otherwise be characterized in that
20 a time indication and/or the respective reception
duration are/is also stored for all channels of interest.
The method is furthermore characterized in that the data
are stored and/or called chronologically and/or on the
basis of the reception duration.

25   Since time indications, such as the time of day
and the date, are also stored, it is possible to define
the sequence in which the channels of interest can be
called up again, as soon as they have been stored using a
function key. After the "reception duration", the channel
30 which the user has watched for the longest time will be
the first to be called up again, while the channel which
has been watched for the second longest time will be the
second, etc. An inverse solution could also be provided.
On the basis of "time indications", it would be possible
35 to call up the data chronologically, that is to say the
user remembers the channel which he or she watched last
or, for example, as the third-last station and, the more
frequently the "channel of interest" key is pressed, the

6

further away he or she is in time from the channel watched. By his or her memory capability, he or she can then quickly once more find the channel that is of most interest to him or her.

5   The method can also be characterized in that a changeover to the channel of most interest is made by operating a control element.

In this way, that is to say via the "channel of interest" key, it is possible (as already described

10   above) to switch back to the channel of interest.

It is also possible to use a menu control to access the method according to the invention. With the aid of the menu, helpful information for handling can then also be overlaid for the user.

15   The method can also be characterized in that a changeover to the last but one channel of interest is made by operating the control element once again.

This double use provides the user with the capability to look at different channels of interest in a

20   simple way.

The method can furthermore be characterized in that a plurality of control elements are provided for different channels of interest.

Since the double use of a function key is limited

25   in that extreme utilization leads to confusion, different control elements are preferably used for the channels of interest. It would also be possible for the function keys to have specific shapes so that if, for example, one function key were marked as a small television, the user

30   could in this case generate films, so-called movies which are currently running, as a channel of interest. If a key were marked with two circles indicating stereo sound, the user could thus be informed of music programmes. A key marked X could also be used to indicate x-desired

35   channels.

A next development of the method is characterized in that a picture relating to the channels of interest is also stored as video information in a frame memory.

7

Since relatively modern televisions have frame memories, such a frame memory could also be used to additionally store the picture relating to the channel of interest which was determined by the user himself or herself or by the method. In this way, the user is reminded of the channel really quickly. This would be advantageous if a television viewer had switched on and watched the television over a relatively long time period, for example three hours, since, in this period, the channel of interest on the same channel would already have been replaced by the next programme so that, for example, if the film of interest were followed by a programme of no interest, the user can use the picture associated with the channel of interest to find it. This picture could be stored automatically after the time interval had been exceeded, or could be stored using the method described above.

It is also possible for a signal also to be evaluated in order to erase the memory for the channel of interest after a programme has ended. The signal could be, for example, the VPS signal.

The method can furthermore be characterized in that, when the control element is operated, the video information and/or the channel information are/is also overlaid.

In this way, the user is supplied with additional information, which makes the system more user-friendly.

The method can also be characterized in that a number of video information items are displayed on the screen by operating a control element, and can be selected via a control element.

If a number of channels of interest are stored with video, then they could be displayed, for example, like a mosaic on the screen and, using the video content, the user can then call up the corresponding channel again using cursor keys or other function keys. This would be advantageous, for example, if all channels, as already mentioned above, which exceed the time interval are

8

selected as a channel of interest, and the user is then provided with the capability of having all the channels displayed on the screen, and then making his or her specific selection. If the time interval is, for example, chosen to be really short, for example 10 seconds or even 2 seconds, then after he or she had quickly zapped through the programmes, the user could use the channels of interest key to display, for example, the last nine channels of interest like a mosaic on the television screen, and then to make his or her selection.

The method can furthermore be characterized in that the channel of interest is called up by voice input.

Since, at the moment, voice synthesizers are increasingly being adopted for controlling consumer electronic appliances, it is possible that the user will no longer have any control elements as such, but will make an input by means of voice commands. Thus, for example, when different time intervals are present, the user could use the command "short i channel" to call up the short channel of interest. The basic idea in this case is that the data which are stored can be called up directly again via specific channel commands, and that long or complicated words are replaced by abbreviations or by new words. It would thus also be conceivable for the currently quoted channel of interest to be described as the "Smart Last Station Switch". The term channel of interest has been defined as such by the various options which have already been described so far or are still to follow. It is thus possible for the channel of interest to be defined as a single i channel, as already indicated.

A further development of the method for determining a channel in a consumer electronics appliance which can be switched over between different channels is characterized in that the reception duration of the current channel is determined and in that, as soon as the reception duration falls below a predetermined time

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interval, the channel is defined as a channel which is not of interest.

This bypassing solution in order to determine a channel of interest represents the detection and masking out of a channel which is not of interest and/or [lacuna] if this channel which is not of interest is intended to be watched. For example, all channels which are shorter than the time interval are detected while zapping through and then become [lacuna], since the television receiver contains a summary of all its channels in the memory, which preferably does not access channels which are found in this way and are not of interest, using the control element. However, it would be possible to access all other channels using this control element.

In order to determine a channel of interest, data can furthermore be evaluated such as the switching sequence and the rate of switching, so that the behaviour of the user is in this way exclusively and/or additionally also evaluated. That is to say channels which are watched frequently are, for example, channels of interest. Channels which are switched away from again quickly are, for example, channels which are not of interest. These channels of interest determined in this way could in turn be called up by a control element. The channels which are not of interest could, for example, be ignored when zapping through the channels, until the user activates them once again for zapping. The activation could be carried out by the user using a menu or a control element to allocate the "channel of interest" status to this channel once again.

A circuit for the method for determining a channel of interest in a consumer electronics appliance having a control unit, having a memory, having a channel signal and having control elements is characterized in that, when the control elements are used for switching over, the control unit detects the reception duration, for how long the respective channel was activated, and as soon as the reception duration falls below a previously

set time interval, this, is stored as a channel of
interest in the memory.

Furthermore, the circuit is distinguished in that
a channel name and/or transmitter frequency and/or

5   channel details and/or ShowView data and/or teletext
information are stored as channel-specific data.

The invention will be explained in the following
text with reference to the drawings and using a plurality
of exemplary embodiments. In the drawing,

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Figure 1   shows a schematic illustration of how a
                  channel of interest is determined,

Figures 2a-c   illustrate channels of interest using a
                  frame memory,

15   Figure 3   shows a block diagram according to the
                  invention.

Figures 1a and 1b illustrate different cases
which show which channel is the respective channel of
most interest. This can then be stored in a memory. The

20   channels currently being shown are in each case listed in
the upper bar ADP. The channels of interest are listed in
the lower bar IP. The classical (known) solution is
listed in the bar LP, represented by the last channel.

The case S1 is the first matter to be explained

25   in Figure 1a. At the time S1, the user in the classical
case presses the "Last Channel" key, and in the present
case presses the "channel of interest" key. The arrows ZE
indicate a time interval for a channel of interest. This
time interval could be, for example, 30 seconds. The user

30   has thus viewed the ARD channel and the time interval ZE
has been exceeded. He has then watched the channel Pro7
and the time interval ZE has likewise been exceeded.
After this, he or she watched the channel 3, and
activates the "channel of interest" key at the time S1.

35   In this case, since the Pro7 channel was the last to
exceed the time interval ZE, the television set switches
to the Pro7 channel. This can also be seen from the
"channel of interest" bar since, as soon as the time

11

interval ZE is exceeded, the respective channel which has
led to the time interval ZE being exceeded is stored in a
memory. The memory contents are thus in each case listed
in this IP bar. This is the same as for the last channel
5 LP with the classical method. With the classical
solution, the user would have switched to the N3 channel
at the time of the case S1.

The case S2 shows that the user briefly watched
various different programmes, for example while zapping
10 through, and, in the end, wanted to return to the channel
being watched before zapping. At the time S2 shown in the
figure, he or she thus presses the "channel of interest"
key reaches the SAT1 channel which had previously
exceeded the time interval. In the classical case, he or
15 she would once again arrive, via the last channel control
element, at the last channel number while zapping
through, which was Bayern 3 B3 (Bavarian third
programme).

The case S3 shows the situation in which the user
20 pressed the classical "last channel" key at the time S3.
Double use of the "channel of interest" control element
and of the classical "last channel" control element would
be conceivable, by briefly pressing the key to call up
the channel of interest, and by pressing it for longer to
25 call up the last channel.

Figure 1b shows the cases S4, S5 and that, at the
time S4, S5, Pro7 was recorded in the memory as the last
channel to exceed the time interval ZE, and the other
illustrated channels have not exceeded the time interval.

30 Figure 2 shows an illustration of the channel of
interest. For example, it is possible, as shown in Figure
2a, for the channel which is currently of interest to be
overlaid for the user using the Picture in Picture PIP
feature and, as soon as a channel of interest has been
35 determined by the time interval being exceeded once
again, for the picture then to be updated, or the channel
change to be indicated, provided this is not a stored
picture.

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Figure 2b shows the Picture out of Picture POP version. If the memory is designed in such a way that a number of channels of interest can be displayed, these could be overlaid one below the other alongside the main
5   picture in the illustration 2b. In order to avoid using an excessively large number of television tuners, it would also be feasible to operate with frame memories which are continuously updated.

Figure 2c shows a number of channels of interest
10   being displayed in mosaic form, from which the user can then use the cursor, represented by the + in this case, to select the channel of interest to him or her. It would also be possible for frame memories to be used which are updated by the system after a specific time, for example
15   after 2-3 seconds, so that the current video for the programme always appears there, providing the user with a good chronological overview.

The respective overlaying process PIP, POP or MOSAIK can be activated via a menu, not shown here.
20   Figure 3 shows a block diagram having a control unit SE, a memory SP, an input signal ES, an output signal AS and having a control unit BE directly on the appliance, or an infrared control unit IR. A counter which monitors the time interval is provided in the
25   control unit SE. Thus, when the input signal ES which is supplied to the control unit SE and contains the channel information about which channel is currently being received is received for the predetermined time interval, for example for more than 30 seconds, this channel is
30   stored as a channel of interest in the memory SP. If the user uses the control unit BE or the remote control IR to switch to another channel, and this once again exceeds the time interval, then this channel is stored as a channel of interest in the memory SP. Since, after the
35   17$^{\text{th}}$ channel which he or she has briefly zapped through, for example with less than 5 seconds in each case, the user wishes to jump back to the previous channel of interest, he or she operates the "channel of interest"

function key on the remote control or on the appliance, and the control unit SE then switches through the data stored in the memory data which are stored in the memory SP relating to the appropriate channels are, for example,

5 the name, the transmitter frequency, channel details, ShowView data, teletext information or any information which would be of interest for the system as such. The consumer electronics appliance, which is in this case represented by the block diagram, could be a television,

10 a satellite receiving system or else a radio receiver, since these fundamental components are present in all appliances, and the method can also be applied to all appliances.

      Although the invention has been explained with

15 reference to television channels, it can also be applied to other broadcast radio programmes.

14

Claims

1.   Method for storage of a channel in a consumer
electronics appliance which can be switched over between
5 different channels, wherein the reception duration of the
current channel is determined, characterized in that, as
soon as the reception duration exceeds a predetermined
time interval ZE, the channel is stored as a channel of
interest.

10

2.   Method according to Claim 1, characterized in
that the reception duration of the current channel is
determined permanently.

15 3.   Method according to Claim 1, characterized in
that the reception duration of the current channel is
determined only until the time interval is reached.

4.   Method according to Claim 1, characterized in
20 that the reception duration is determined on switching
over from the current channel to a further channel.

5.   Method according to Claim 1, characterized in
that the time interval is set by the manufacturer and/or
25 the user.

6.   Method according to Claim 1, characterized in
that various time intervals are set.

30 7.   Method according to Claim 6, characterized in
that a first short time interval, a second medium time
interval and a third long time interval are provided, in
order in this way to determine channels of differing
interest.

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8.   Method according to Claim 1, characterized in
that the reception duration of the current channel is

AMENDED SHEET

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determined, and in that, on switching over from the current channel to a further channel, the reception duration of the further channel is determined, and in that the channel having the longest reception duration is
5   stored as the time interval.

9.   Method according to Claim 1, characterized in that all the channels which exceed the time interval are stored as channels of interest.

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10.   Method according to Claim 9, characterized in that a time indication and/or the respective reception duration are/is also stored for all channels of interest.

15   11.   Method according to Claim 10, characterized in that the data are stored and/or called chronologically and/or on the basis of the reception duration.

12.   Method according to Claim 1, characterized in
20   that a changeover to the channel of interest is made by operating a control element.

13.   Method according to Claim 1, characterized in that a changeover to the last but one channel of interest
25   is made by operating the control element once again.

14.   Method according to Claims 7 and 9, characterized in that a plurality of control elements are provided for different channels of interest.

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15.   Method according to Claim 1, characterized in that a picture relating to the channels of interest is also stored as video information in a frame memory.

35   16.   Method according to Claim 15, characterized in that, when the control element is operated, the video

AMENDED SHEET

16

information and/or the channel information are/is also
overlaid.

5   17.   Method according to Claim 15, characterized in
that a plurality of pictures are displayed on the screen
by operating a control element, and can be selected via a
control element.

10   18.   Method according to Claim 1, characterized in
that the channel of interest is called up by voice input.

19.   Method according to Claim 1, characterized in
that channel-specific data such as a channel name and/or
transmitter frequency and/or channel details and/or
15   ShowView data and/or teletext information are also
stored.

20.   Method for determining a channel in a consumer
electronics appliance which can be switched over between
20   different channels, wherein the reception duration of the
current channel is determined, characterized in that, as
soon as the reception duration falls below a
predetermined time interval, the channel is defined as a
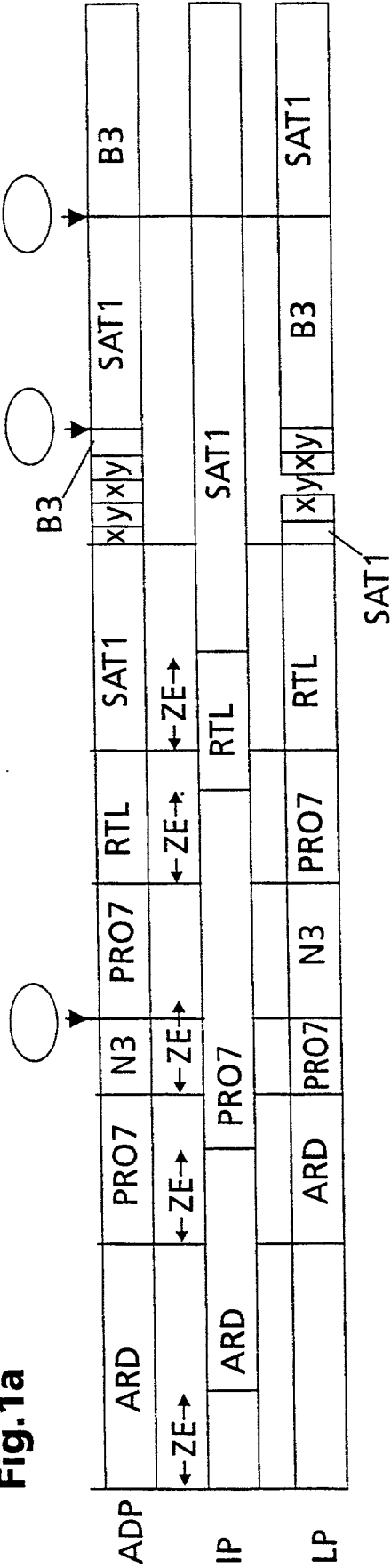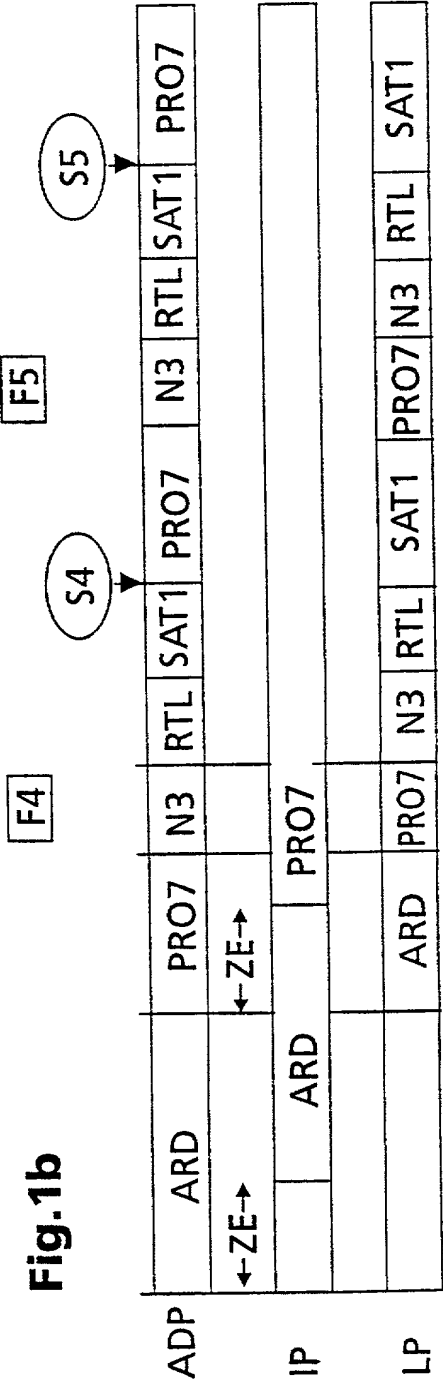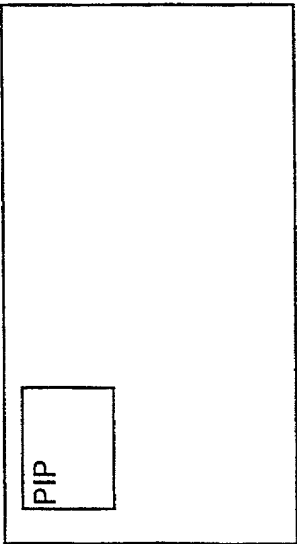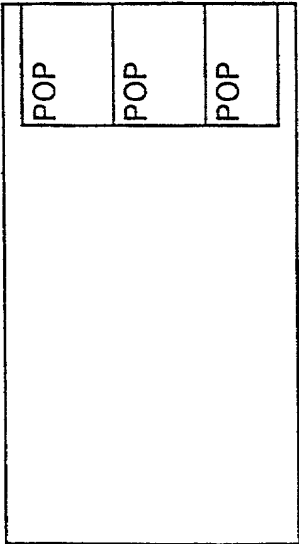channel which is not of interest.

25

Fig.1a

Fig.1b

Fig.3

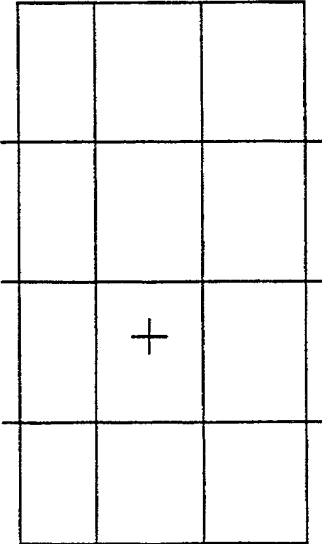Fig. 2a
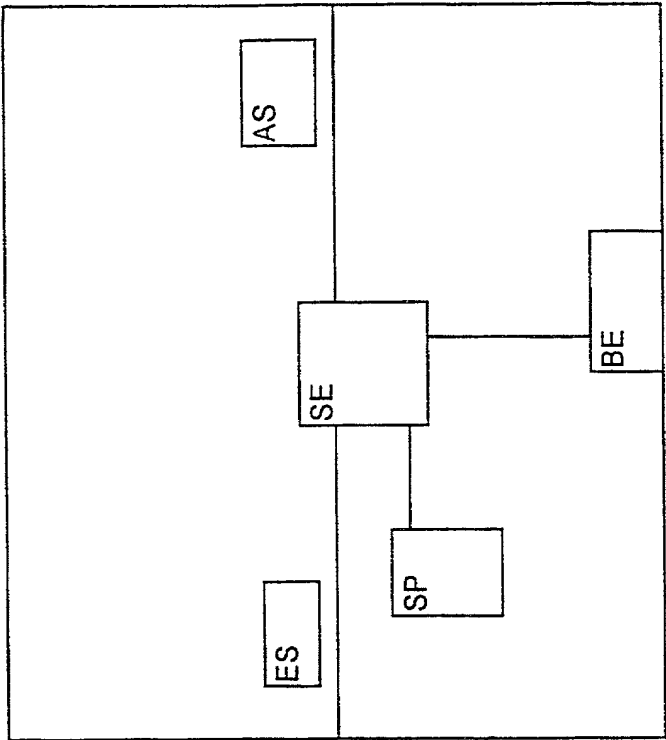

Fig. 2b

Fig.2c

EXPRESS MAIL EL6R2 441873US

PD980061

DECLARATION FOR UNITED STATES PATENT APPLICATION, POWER OF ATTORNEY, DESIGNATION OF CORRESPONDENCE ADDRESS

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD FOR STORAGE OF A CHANNEL FOR A CONSUMER ELECTRONICS APPLIANCE

the specification of which
(CHECK ONE) ( ) is attached hereto.
              (xx) was filed on September 03, 1999, Application Serial. No. PCT/EP 99/06478
                    and was amended on .

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR 1.56(a).

I hereby claim foreign priority benefits under 35 USC 119 of any foreign application(s) for patent, utility model, design or inventor's certificate having a filing date before that of the application(s) on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
Number	Country	Date Filed	Yes	No
198 41 298.3	DE	September 10, 1998	xx	

I hereby claim the benefit under 35 USC 120 of any US Application(s) listed below, and, insofar as the subject matter of each of the claims of this Application is not disclosed in the prior US application in the manner provided by the first paragraph of 35 USC 112, I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR 1.56(a).

Serial No.:   Filed:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under of 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Joseph S. Tripoli (Reg. No. 26,040) Telephone: (609) 734-9443.

Address all correspondence to Joseph S. Tripoli, Patent Operations - Thomson multimedia Licensing, Inc. - CN 5312 - Princeton, New Jersey 08543-0028.

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DEX